BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:- Modified Estimate Maintenance of roads and Footpath and Providing Kerbs in ward no.13 Shettyhalli Sub Division

							Est .Cost Rs.	41.50	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
1	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**								
	For Asphalting Road	**Sqm**							
	2nd Main Road near Bengaluru one		2	49.00	1.20		117.60		
	3rd Main Road near indira canteen		2	165.00	1.20		396.00		
	Modified Quantity						**513.60**		
	Schedule-B Quantity						**1371.10**		
	Quantity						**513.60**	**99.12**	**50908.03**
2	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 143/ Item No. 19.1/ PWD SR 2018 19)								
	For Desilting of drains	**Cum**							
	2nd Main Road near Bengaluru one		2	49.00	0.60	0.45	26.46		
	3rd Main Road near indira canteen		2	165.00	0.60	0.45	89.10		
	For Asphalting Road								
	2nd Main Road near Bengaluru one		2	49.00	1.20	0.25	29.40		
	3rd Main Road near indira canteen		2	165.00	1.20	0.25	99.00		
	For CC Road								
	Kalyana Nagara								
	11th Cross		2	46.00	1.20	0.30	33.12		
	11th A Cross		2	221.00	1.20	0.30	159.12		
	Cross Road		2	27.00	1.20	0.30	19.44		
	Cross Road near Party Hall		2	43.00	1.20	0.30	30.96		
	7th Cross (old 3rd main)		2	86.00	1.20	0.30	61.92		
	4th E Cross		2	51.00	2.50.	0.30	30.60		
	For CC Road (Cutting Portion)								
	Kalyana Nagara								
	11th Cross		2	46.00	0.60	0.30	16.56		
	11th A Cross		2	221.00	0.60	0.30	79.56		
	Cross Road		2	27.00	0.60	0.30	9.72		
	Cross Road near Party Hall		2	43.00	0.60	0.30	15.48		
	7th Cross (old 3rd main)		2	86.00	0.60	0.30	30.96		
	4th E Cross		2	51.00	0.60	0.30	18.36		
	Modified Quantity						**749.76**		
	Schedule-B Quantity						**324.02**		
	Quantity upto 125%						**405.03**	**215.70**	**87363.89**
	Quantity Above 125%						**344.74**	**215.70**	**74359.34**

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							Est .Cost Rs.	41.50	Lakhs
No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
3	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.**(Page No-7 Item no - 2.10 of KPWD SR 2018-19)**								
		Cum							
	Modified Quantity						0.00		
	Schedule-B Quantity						**630.00**		
	Total						0.00	**225.55**	**0.00**
4	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
	For Asphalting Road	**Sqm**							
	2nd Main Road near Bengaluru one		2	49.00	1.20		117.60		
	3rd Main Road near indira canteen		2	165.00	1.20		396.00		
	For CC Road								
	Kalyana Nagara								
	11th Cross		2	46.00	1.20		110.40		
	11th A Cross		2	221.00	1.20		530.40		
	Cross Road		2	27.00	1.20		64.80		
	Cross Road near Party Hall		2	43.00	1.20		103.20		
	7th Cross (old 3rd main)		2	86.00	1.20		206.40		
	4th E Cross		2	51.00	2.50.		102.00		
	Modified Quantity						**1630.80**		
	Schedule-B Quantity						**1686.10**		
	Quantity upto 125%						**1630.80**	**6.61**	**10779.59**
5	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 pwd 2018-19)								
	For CC Road	**Cum**							
	Kalyana Nagara								
	11th Cross		2	46.00	1.20	0.15	16.56		
	11th A Cross		2	221.00	1.20	0.15	79.56		
	Cross Road		2	27.00	1.20	0.15	9.72		
	Cross Road near Party Hall		2	43.00	1.20	0.15	15.48		
	7th Cross (old 3rd main)		2	86.00	1.20	0.15	30.96		
	4th E Cross		2	51.00	2.50.	0.15	15.30		
	Modified Quantity						**167.58**		
	Schedule-B Quantity						**214.52**		
	Quantity upto 125%						**167.58**	**5724.19**	**959259.76**
6	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 (Page No-158 Item no - 20.18 of KPWD SR 2018-19)								
	For Asphalting Road	**Cum**							

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						Est .Cost Rs.	41.50	Lakhs
o	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	2nd Main Road near Bengaluru one		2	49.00	1.20	0.20	23.52		
	3rd Main Road near indira canteen		2	165.00	1.20	0.20	79.20		
	For CC Road								
	Kalyana Nagara								
	4th E Cross		2	51.00	2.50.	0.20	20.40		
	Modified Quantity						**123.12**		
	Schedule-B Quantity						**79.20**		
	Quantity upto 125%						**99.00**	**2079.33**	**205853.67**
	Quantity Above 125%						**24.12**	**2079.33**	**50153.44**
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**									
	For CC Road	**Cum**							
	Kalyana Nagara								
	11th Cross		1	46.00	4.50	0.15	31.05		
	11th A Cross		1	221.00	3.30	0.15	109.40		
	Cross Road		1	27.00	4.10	0.15	16.61		
	Cross Road near Party Hall		1	43.00	6.50	0.15	41.93		
	7th Cross (old 3rd main)		1	86.00	3.40	0.15	43.86		
	4th E Cross		1	51.00	4.50	0.15	34.43		
	Deduction of Manholes		-10	0.785	0.60	0.15	-0.71		
	Modified Quantity						**276.55**		
	Schedule-B Quantity						**228.62**		
	Quantity upto 125%						**276.55**	**5562.83**	**1538420.11**
8	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision **(Page No. 158.tem No.21.6,PW,P & IWTD SR 2018-19)**								
	For Asphalting Road	**Sqm**							
	2nd Main Road near Bengaluru one **(Aproch)**		2	49.00	1.20		117.60		
	3rd Main Road near indira canteen **(Aproch)**		2	165.00	1.20		396.00		
	Modified Quantity						**513.60**		
	Schedule-B Quantity						**396.00**		
	Quantity Upto 125%						**495.00**	**27.53**	**13627.35**
	Quantity Above 125%						**18.60**	**35.24**	**655.52**

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						Est .Cost Rs.	41.50	Lakhs
No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision **(Page No. 160.tem No.21.17.6,PW,P & IWTD SR 2018-19)**								
	For Asphalting Road	**Cum**							
	2nd Main Road near Bengaluru one		2	49.00	1.20	0.05	5.88		
	3rd Main Road near indira canteen		2	165.00	1.20	0.05	19.80		
	Modified Quantity						**25.68**		
	Schedule-B Quantity						**19.80**		
	Quantity upto 125%						**24.75**	**5950.54**	**147275.87**
	Quantity Above 125%						**0.93**	**7577.22**	**7046.81**
10	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision **(Page No. 158.tem No.21.2, PW,P & IWTD SR 2018-19)**								
	For Asphalting Road	**Sqm**							
	2nd Main Road near Bengaluru one		1	49.00	5.40		264.60		
	3rd Main Road near indira canteen		1	165.00	5.10		841.50		
	Modified Quantity						**1106.10**		
	Schedule-B Quantity						**907.50**		
	Quantity up to 125%						**1106.10**	**5.51**	**6094.61**
11	KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.25 kg per sqm on the existing prepared bituminous surface (primed surface) cleaned with mechanical broom. complete as per specifications. Clause 503 of MORTH V revision **(Page No. 158.tem No.21.7, PW,P & IWTD SR 2018-19)**								
	For Asphalting Road	**Sqm**							
	2nd Main Road near Bengaluru one		1	49.00	5.40		264.60		
	3rd Main Road near indira canteen		1	165.00	5.10		841.50		
	Modified Quantity						**1106.10**		
	Schedule-B Quantity						**19.80**		
	Quantity up to 125%						**1106.10**	**13.22**	**14622.64**
12	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen **(Page No. 162.tem No.21.22.6, PW,P & IWTD SR 2018-19)**								
	For Asphalting Road	**Sqm**							
	2nd Main Road near Bengaluru one		1	49.00	5.40	0.03	7.94		
	3rd Main Road near indira canteen		1	165.00	5.10	0.03	25.25		
	Modified Quantity						**33.18**		
	Schedule-B Quantity						**27.23**		

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							Est .Cost Rs.	41.50	Lakhs
	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Quantity up to 125%						**33.18**	**7025.45**	**233125.51**
13	Providing and fixing Precast RCC cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforement and pointing for joints 1:3 cement mortor including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of Engineer in Charges (Data Rate)								
	Missing slabs	**Sqm**	1	200.00	0.90		180.00		
	Modified Quantity						180.00		
	Schedule-B Quantity						201.60		
	Quantity up to 125%						**180.00**	**1677.99**	**302038.20**
14	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 **(P.No.136 & I.No.17.1 PWD 18-19)**								
	Vide Item No.1	Cum							
	Modified Quantity						33.79		
	Schedule-B Quantity						90.22		
	Quantity up to 125%						**33.79**	**83.12**	**2809.03**
15	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road **(P.No.136 & I.No.17.4 PWD 18-19)**								
	Vide Item No.14	t.km							
	Modified Quantity						33.79		
	Schedule-B Quantity						90.22		
	Quantity up to 125%						**33.79**	**26.60**	**898.94**
								Total Construction Cost	**3705292.31**
								GST Charges 12%	**444635.08**
								Total	**4149927.39**

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst Engineer
Ward No- 13
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

Technically Sanctione for Rs. 37.05 Lakhs/-
Rs. In words Rs. Thirty Seven Lakhs Five thousand Two Hundred & Ninety Two only
Under ₹ 32.96
Job Code No. 013-20-000421
Registered as CE No. 24/2021-22 subject to conditions contained in Enclosed vide No. CE/DZ/TS/24/21-22, Dt. 16/06/21
AE/JE: TA
CE(B)

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